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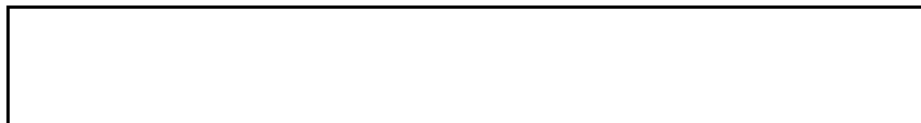
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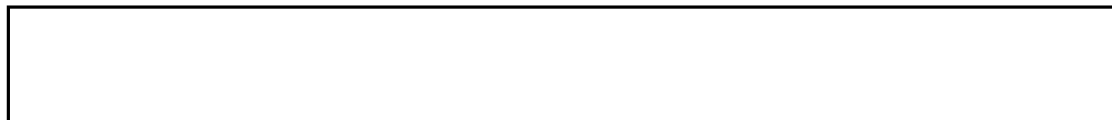
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GUBA LITSA SUBMARINE BASE

GUBA LITSA, USSR

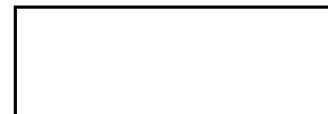


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Declass Review by NIMA / DoD



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GROUP 1  
Excluded from automatic  
downgrading and declassification

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GUBA LITSA SUBMARINE BASE

GUBA LITSA, USSR

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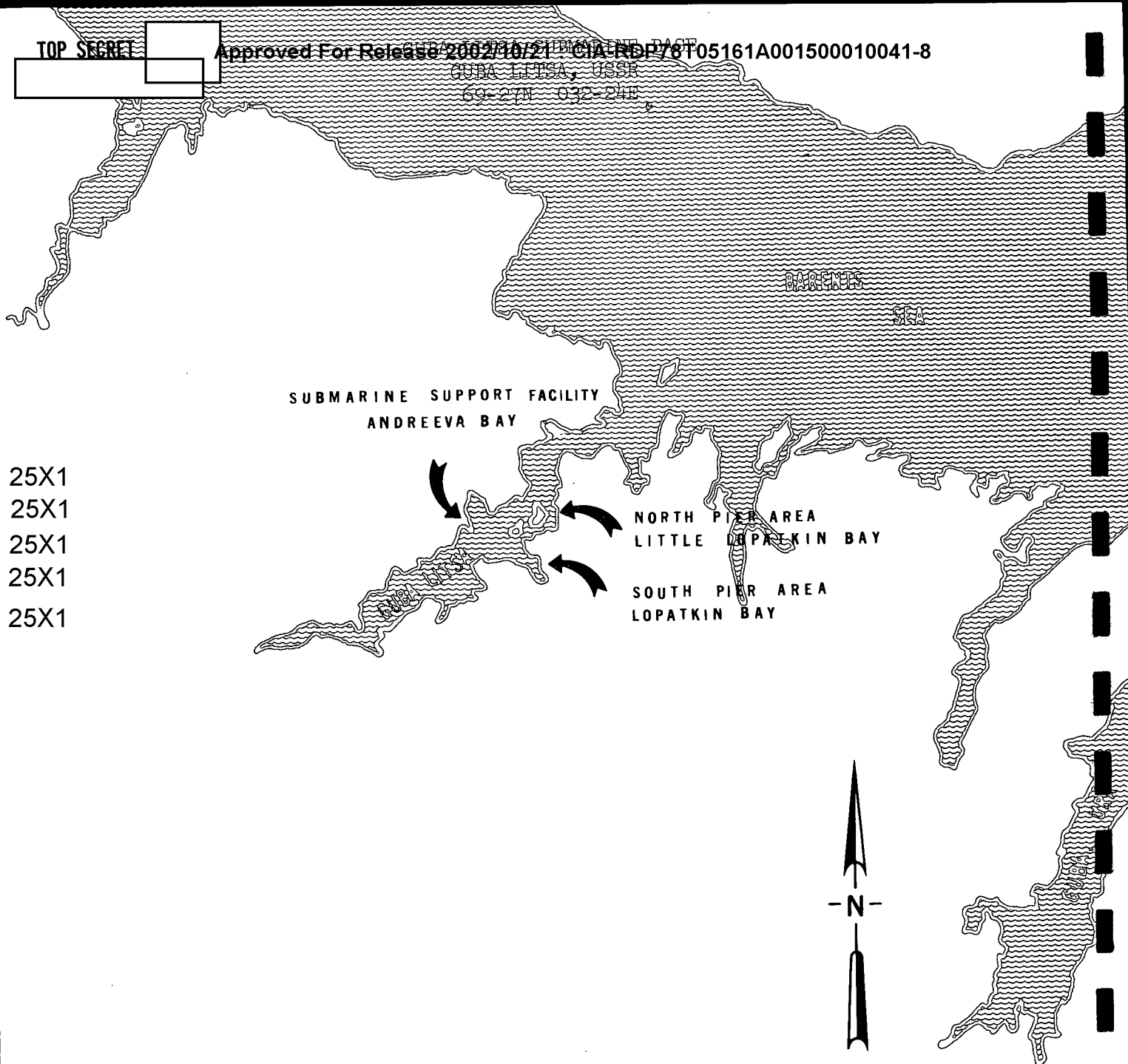
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CUBA LITSA, USSR  
69-27N 032-24E



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FIGURE 1

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GUBA LITSA SUBMARINE BASE

GUBA LITSA, USSR

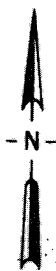
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FIGS 6 & 9

FIGS 3 & 7

FIGS 4 & 8

FIG 5



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FIGURE 2

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DDI IMAGERY ANALYSIS STAFF

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FACILITY : GUBA LITSA SUBMARINE BASE  
(SUPPORT FACILITY - ANDREEVA BAY)  
LOCATION : GUBA LITSA, USSR  
GEO COORDS: 69-27N 032-22E

KEY TO ANNOTATIONS ON FIGURE 3

1. Probable Modified MELITOPOL Class Merchant Ship (LOA approx 190'). Mast, hatch and superstructure placement, and configuration as well as length over-all contribute to this evaluation.
2. Covered barge (LOA approx 145').
3. Covered barge (LOA approx 140'). Each of the two barges at annotations 2 and 3 above has two raised hatches amidships.
4. Unidentified probable auxiliary (LOA approx 210'). This ship has a raised one-three hull profile with the stack and a single superstructure aft. The deck configuration is similar to a tanker in that a possible catwalk runs the length of the well deck. Four life-boats are placed aft of the bridge, two to port, and two to starboard.
5. "PM-124" Class YRSN (LOA approx [redacted]). Hatches forward, cranes fore and aft, large probable "A" frame forward of the amidships superstructure, and the over-all hull shape confirmed this identification.
6. DUNA Class YR (LOA approx [redacted]). Hull shape, long superstructure, placement of the bridge, and the two centerline-mounted stacks confirmed this evaluation. The after stack is emitting smoke/steam.
7. "H-II" Class SSBN (visible waterline length approx 380') berthed between the "PM-124" and the DUNA (annotations 5 and 6 above). Position and shape of the large sail confirm this "H" Class submarine to be of the type "II". The first and second missile tubes are exposed with the canopies open to port and the cowlings open to starboard. Unidentified imagery with considerable height (apparently one-half as high as the sail) is located just aft of the sail along the centerline. This imagery is approximately the same length as the shack seen on the

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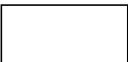
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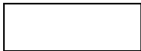
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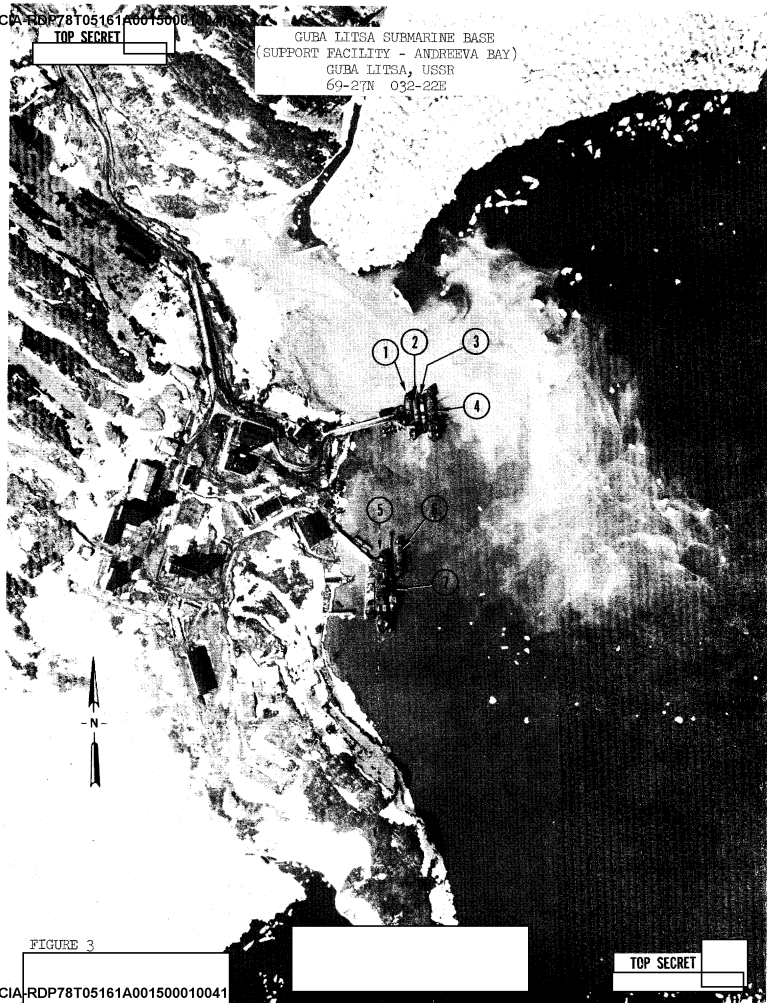
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"N" Class SSN at Severodvinsk.

Shadows precluded an accurate determination of the shape of this imagery.

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This marks one of the few instances in photography that the stern fin of the "H" Class SSBN is clearly visible. Often this recognition feature of the "H" Class is not visible, and an apparent difference in the submarine's waterline length may result. This phenomenon was noted on coverage of Guba Sayda Submarine Base, Guba Sayda (69-15N 033-21E).



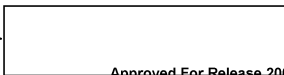
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GUBA LITVA SUBMARINE BASE  
(SUPPORT FACILITY - ANDREEVA BAY)  
GUBA LITVA, USSR  
69-27N 032-22E

FIGURE 3

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FACILITY : GUBA LITSA SUBMARINE BASE  
(SOUTH PIER AREA - LOPATKIN BAY)  
LOCATION : GUBA LITSA, USSR  
GEO COORDS: 69-26N 032-25E

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KEY TO ANNOTATIONS ON FIGURE 4

1. Unidentified barge (LOA approx 115').  
This barge is rectangular in shape with a flat deck and a small wheelhouse aft.
2. Probable SHALANDA-I Class YF (LOA approx 115').  
A superstructure aft and two holds forward are visible on this lighter.
3. Unidentified possible merchant ship (LOA approx 190').  
This ship has a superstructure aft with two sets of lifeboats abaft the stack.
4. SUPPORT Class YR (LOA approx 290').  
This ship is characterized by a superstructure aft, two well decks, amidships lifeboat placement, and the bow lift extension. Refer to page III-41, ONI 36-2B, Communist Bloc Fishing Fleets and Scientific Research Ships, for details of this floating workshop.
5. "E-II" Class SSGN (visible waterline length approx [redacted])  
The four sets of blast deflectors, length and position of sail, the unique triangle of white spots created by the forward emergency telephone buoy, and the "circular indentations" on the bow confirm this identification. See Figure 5 of this PIR for a description of missile activity in the vicinity of this wharf.
6. Unidentified small probable YF (LOA approx 120').
7. Portal jib crane.  
The base of this very large crane nearly spans the entire width of the wharf, a distance of approximately 45 feet.
8. "E-II" Class SSGN (visible waterline length approx [redacted])  
The four sets of blast deflectors, small sail, and white topside features (e.g., the lateral obstruction warning line, fore and aft emergency telephone buoys, and circular indentations) confirm this identification.

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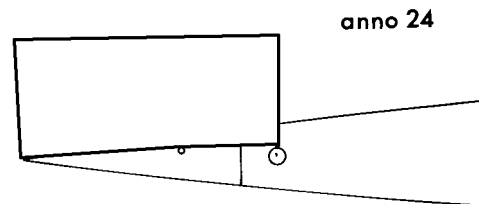
9. Large floating crane (base dimensions approx 140' x 75') berthed between the pier and the "E-II" Class SSGN at annotation 8 above.

10. "N" Class SSN (visible waterline length approx [redacted])

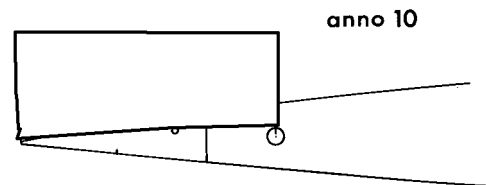
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This submarine displays the characteristic rounded bow with the prominent "staybrite" sonar array, the small sloping sail, and tapered stern. Other recognition features visible are the fore and aft rescue bell seating rings, after emergency telephone buoy, and the lateral obstruction warning line. The distance from the stern to the after end of the sail measures approximately [redacted]. The leading edge of the sail at the deckline cannot be determined due to the sun angle. The distance from the stern to the lateral obstruction warning line measures approximately 40 feet. (For a line drawing illustrating the placement of the lateral obstruction warning line see Figure 4a.) The distance from the stern to a small circular indentation offset slightly to port from the centerline of the submarine is [redacted] and from the stern to the aft emergency telephone buoy is 55 feet.

'N' CLASS WARNING LINE VARIANCES



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FIG 4a

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11. Unidentified probable YF (LOA approx 130').
12. UGRA Class AS (LOA approx 470'\*).  
Hull shape, length, and topside configuration confirmed this identification. Smoke/steam is being emitted from the stack of this ship.
13. Covered barge (LOA approx 150').  
This barge has 2 hatches with superstructure aft.
14. Unidentified probable AKL (LOA approx 180').

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- 25X1 15. "K-I" Class OSS (visible waterline length approx [redacted])  
The flaring of the deck near the bow and the rounded stern identify this submarine as a "K-I". The sail seems to have been altered and appears to be identical to the sail configuration observed on the "K-I" Class OSS seen at Guba Sayda Submarine Base (69-15N 033-21E).
- 25X1 16. Two BOLVA Class APL (LOA of each approx [redacted])  
Hull shape, long superstructure, and distinctive topside ventilator arrangement confirmed this evaluation.
17. Possible LENTRA Class AKL (LOA approx 130').
18. Possible "POLUCHAT-3" Class YPT - Torpedo Retriever (LOA approx 70').
19. Two "P-6" Class PT (LOA approx 85'\*).  
Neither of these boats appears to have torpedo tubes.
- 25X1 20. "E-II" Class SSGN (visible waterline length approx [redacted])  
The first, second, and fourth set of missile launchers are elevated.
21. "N" Class SSN (visible waterline length approx 350'\*).  
The very rounded bow, "staybrite" belt sonar array on the bow, and long tapered lines confirm this identification as an "N" Class SSN. The white objects seen on the other "N" Class at this base are not as apparent on this submarine. The only prominent topside feature is the emergency telephone buoy. The distance from the stern to the after end of the sail measures approximately [redacted] Neither the leading edge of the sail nor the lateral obstruction warning line is distinguishable.
- 25X1 22. & 23. "E-II" Class SSGN (visible waterline length of each approx 380'\*).  
Both submarines are identical and evidence the topside recognition features described for the "E-II" Class SSGN at annotation 8 above. In addition to the emergency telephone buoys, the lateral obstruction warning line, and the circular indentations, the emergency rescue buoy seating rings are visible on these two ships.
24. "N" Class SSN (visible waterline length approx 355'\*).  
Very rounded bow, "staybrite" belt, small sloping sail, and vertical fin all confirm this identification. The distance from the stern to the after edge of the sail measures approximately [redacted] The leading
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edge of the sail is not distinguishable. The distance from the stern to the lateral obstruction warning line is approximately [redacted] or approximately [redacted] greater than on the submarine at annotation 10 above. The distance from the stern to a small circular indentation offset slightly to port from the centerline of the submarine is [redacted] and from the stern to the aft emergency telephone buoy is 55 feet. (For a line drawing illustrating the placement of the lateral obstruction warning line see Figure 4a.)

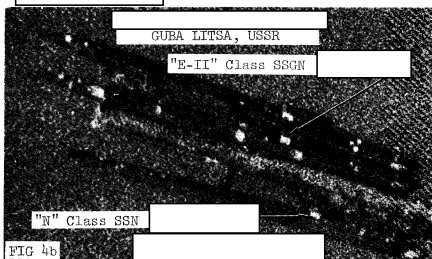
25. & 26. Covered barges (LOA approx 150').  
Each of these vessels appears similar to the covered barge described in annotation 13 above.

- NOTES: 1. In those cases where two or more submarines are nested together a camel or floating fender arrangement separates their sterns.
2. All the measurements indicated by an asterisk (\*) were derived by the Technical Intelligence Division, NPIC. They are considered accurate [redacted], whichever is greater. All other measurements are derived by scaling from accepted lengths of vessels or by utilizing a 295' distance between the two forward and the singular aft "circular indentations" as observed on the "E-II" Class SSGN.

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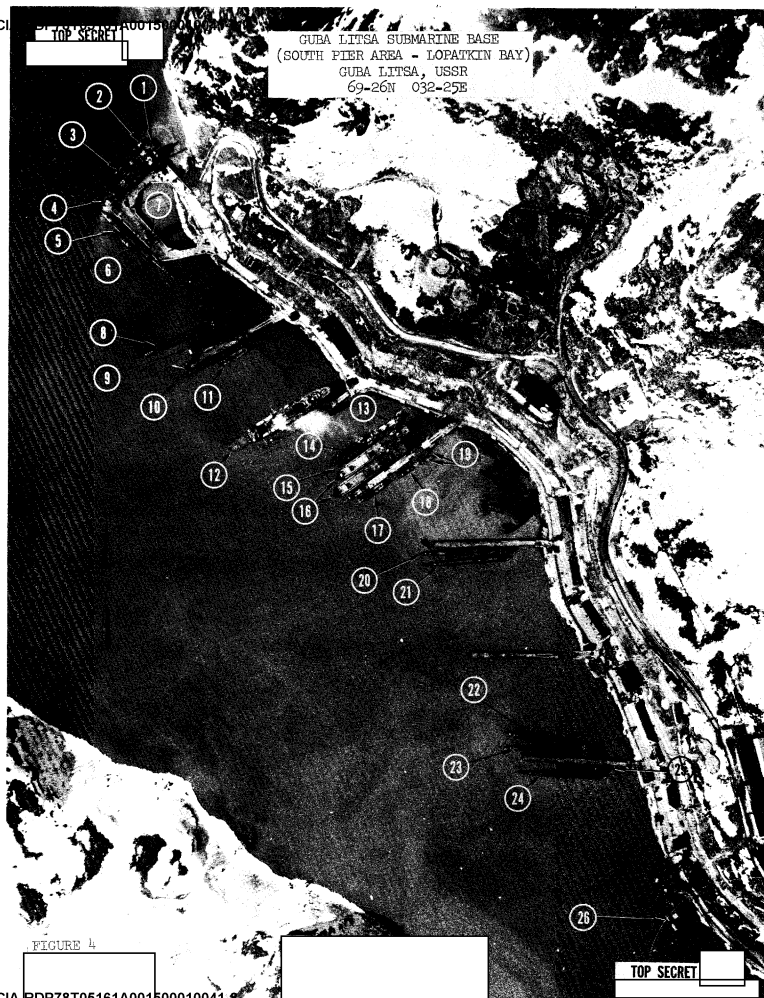
3. Pass [redacted] overflew Guba Litsa [redacted] which is used for Figure 4 and Figure 6. Pass [redacted] was an oblique pass which allowed for exposure of the side of the submarine sail [redacted]

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DDI IMAGERY ANALYSIS STAFF

FACILITY : GUBA LITSA SUBMARINE BASE  
(MISSILE HANDLING WHARF - LOPATKIN BAY)  
LOCATION : GUBA LITSA, USSR  
GEO COORDS: 69-26N 032-25E

KEY TO ANNOTATIONS ON FIGURE 5

1. "E-II" Class SSGN at missile handling wharf.

The second launcher on this submarine is elevated. The entire number three missile tube (the outboard tube on the second launcher) is clearly visible in its elevated position along the starboard side of the sail. A missile (annotation D) is suspended in front of the number four (inboard) missile tube and is slightly inclined toward the direction of the launcher; however, the missile does not appear to be aligned with a line parallel to that of the outboard missile tube. In addition, the end of the missile nearest the port launcher appears to be slightly above and forward of the projected end of the inboard launcher. Although the forward half of the inboard missile tube of the second launcher is obscured by the shadow from the sail, it appears, from analyzing the imagery visible on the after half of the inner tube, that each tube of the second launcher is elevated to the same angle. A rounded forward extremity (similar to the tube cap) on the outer tube (number 3) and the inward angle to the leading edge of the blast deflector cavity are readily discerned, thereby indicating that the entire tube is visible. The length of the missile (including the area in sail shadow) is approximately [REDACTED]

Two possible missile transporters are observed on the wharf (annotations A and C) [REDACTED] One of the possible transporters has moved from a position just north of a large crane (see annotation B) on the earlier pass to just south of the crane on the later pass. Imagery which may equate to a possible fin or wing appears to extend from this possible transporter on the side furthest from the submarine. This possible fin or wing is positioned in the middle of the possible transporter. The approximate length of each of the transporters [REDACTED] however, the end-points are not easily discerned. The wharf to which this submarine is moored appears to be especially designed for missile handling having an easy turn radius with angles of not more than 45 degrees.

Seven unidentified pieces of equipment are located to the southeast of the missile loading wharf (see annotation E). These unidentified pieces of equipment have an over-all appearance suggestive of missile related equipment; however, they are in the same position on all three passes.

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(MISSILE HANDLING WHARF - LOPATKIN BAY)  
GUBA LITSA, USSR  
69-26N 032-25E

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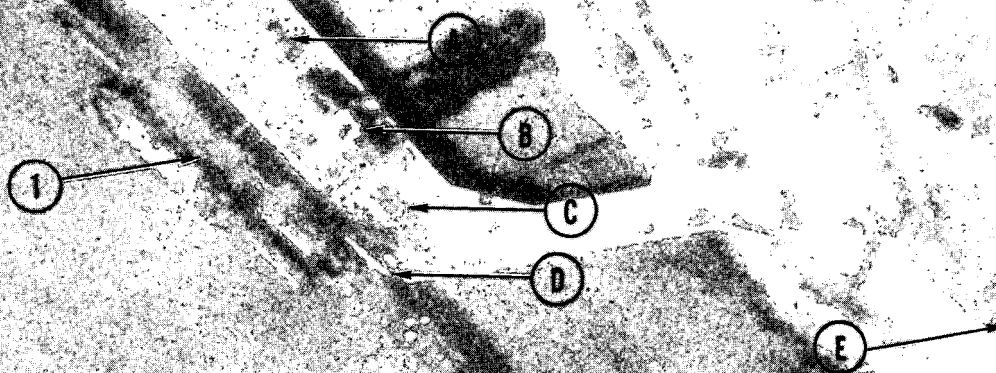


FIGURE 5

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FACILITY : GUBA LITSA SUBMARINE BASE  
(NORTH PIER AREA - LITTLE LOPATKIN BAY)  
LOCATION : GUBA LITSA, USSR  
GEO COORDS: 69-27N 032-27E

KEY TO ANNOTATIONS ON FIGURE 6

1. Unidentified ARSD (LOA approx [REDACTED])  
The salvage crane, mast, boom storage, and other topside detail are similar to the NEPTUN Class ARSD; however, the NEPTUN Class is significantly shorter [REDACTED]. A possible ARSD approximately this length was sighted in Sevastopol, USSR (44-36N 033-34E). [REDACTED]
2. Unidentified small barge (LOA approx 120').
3. Floating shearlegs (approx 60' x 30').
4. Unidentified barge (LOA approx 180').
5. Unidentified barge (LOA approx 245').  
An unidentified vessel is located in the shadows between this barge and the BOLVA Class APL (annotation 6 below).
6. BOLVA Class APL (LOA approx 365'\*).  
Hull shape, long superstructure, and distinctive topside ventilator arrangement confirm this identification.
7. Possible SCHOLLE Class YTM underway (LOA approx 110').
8. Unidentified merchant vessel (LOA approx [REDACTED])  
This vessel has a raised one-three hull profile.
9. UGRA Class AS (LOA approx 470'\*).  
Hull shape, length, and topside configuration confirm this identification.
- 10,11,&12. "E-II" Class SSGN (visible waterline length of each approx 385'\*).  
The four sets of blast deflectors, small sail, and white topside features (i.e., the rescue bell seating ring, circular indentations, and forward and aft emergency telephone buoys) confirm this identification. The fourth set of missile launchers is elevated on the middle submarine. A small white dot is visible along the raised centerline and between the number 2 exhaust deflector cavities on each of these submarines.

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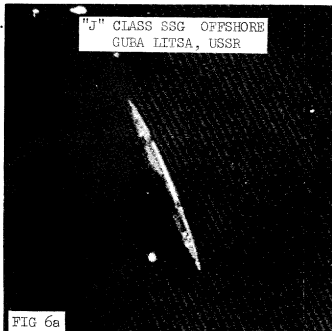
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13. Possible DUNA Class YR (LOA approx 165').  
Hull shape, location of superstructure, and positioning of lifeboat are similar to the DUNA Class identified on annotation 6, Figure 3.
14. "J" Class SSG (length could not be measured).  
The bow of this submarine is in the shadows cast by an unidentified AG (see annotation 15 below). The relatively high freeboard, position of the sail, and presence of only one set of missile launchers aft of the sail confirm this identification.
15. Unidentified AG (LOA approx [redacted]).  
This vessel appears to have a hull outline similar to a "PM-124" Class YRSN; however, the superstructure, the position of the stack, and the location of the cranes differ. This vessel appears to have 2 cranes forward, superstructure amidships, a stack just abaft of the superstructure, and a deckhouse aft. Similar vessels have been observed at the Guba Sayda Submarine Base and at the Petropavlovsk Naval Base, Seidevaya Bay, Petropavlovsk, USSR (52-53N 158-25E), and the Petrovka Shipyard, Petrovka, USSR (43-07N 132-21E).
16. Unidentified barge (LOA approx 180').

NOTE: 1. A "J" Class SSG is moored in the middle of Litsa Bay approximately 0.5 nm NNW of the North Pier Area. A long high sail, flat deck, high freeboard, and two sets of missile exhaust deflectors are clearly visible on this submarine.

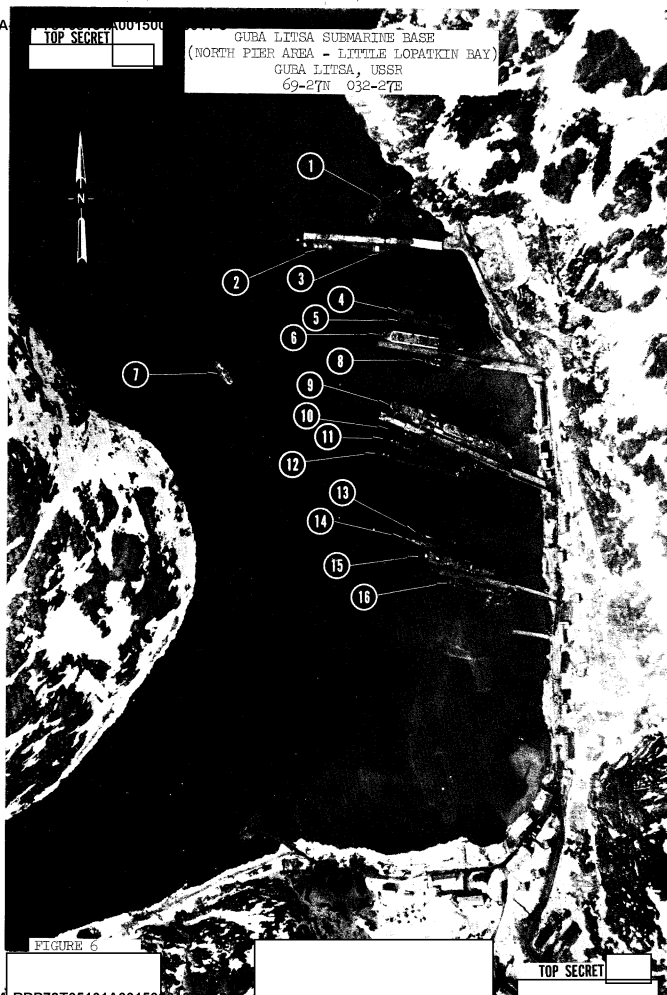
2. Measurement values contained in the text to Figure 6 were compiled [redacted] over this target.



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DDI IMAGERY ANALYSIS STAFF

FACILITY : GUBA LITSA SUBMARINE BASE  
(SUPPORT FACILITY - ANDREEVA BAY)  
LOCATION : GUBA LITSA, USSR  
GEO COORDS: 69-27N 032-22E

KEY TO ANNOTATIONS ON FIGURE 7

1. Possible Modified MELITOPOL Class Merchant Ship.

2. Possible covered barge.

3. Probable "PM-124" Class YRSN.

See annotation 5, Figure 3. The "H-II" Class SSBN previously berthed outboard of this auxiliary (annotation 7, Figure 3) may have moved to the Missile Handling Wharf, South Pier Area (annotation 1, Figure 8).

4. Possible DUNA Class YR.

5. Possible "E" Class SSGN.

Identification is based on configuration of the "staybrite" sonar belt, a small possible sail, and the location of imagery which may possibly equate to missile exhaust ports.

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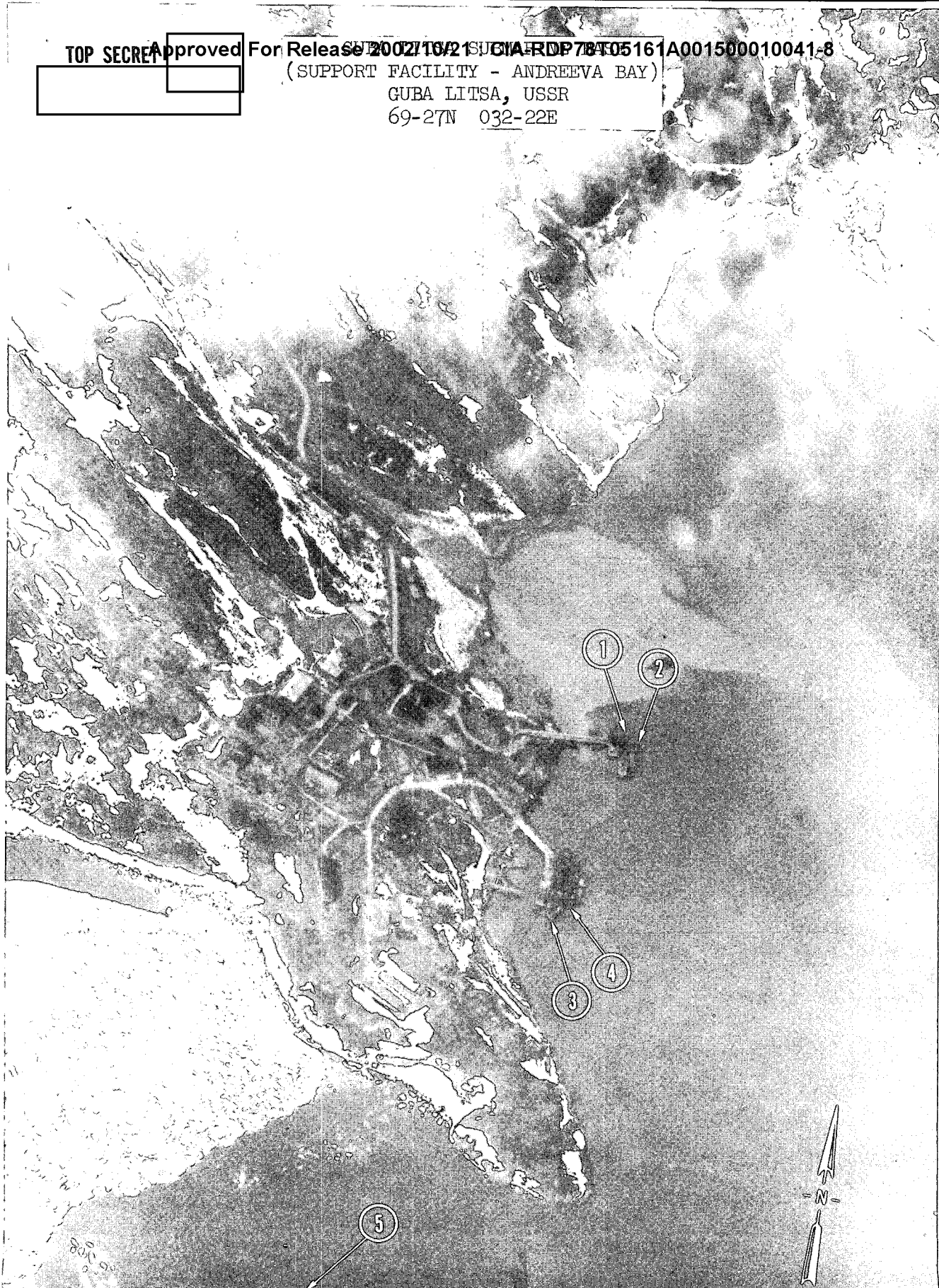
(SUPPORT FACILITY - ANDREEVA BAY)

GUBA LITSA, USSR

69-27N 032-22E

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FIGURE 7

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DDI IMAGERY ANALYSIS STAFF

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FACILITY : GUBA LITSA SUBMARINE BASE  
(SOUTH PIER AREA - IOPATKIN BAY)  
LOCATION : GUBA LITSA, USSR  
GEO COORDS: 69-26N 032-25E

KEY TO ANNOTATIONS ON FIGURE 8

25X1

1. Probable "H" Class SSBN.  
This submarine is moored outboard of a SUPPORT Class YR (see annotation 4, Figure 4, and annotation 2 below) which partially obscures it. A section of the stern and the stern fin extend into the water past the stern of the YR, and the top of a large probable sail, characteristic of a ballistic missile submarine, is visible over the YR. An "H" Class SSBN was observed [redacted] at the Andreeva Bay Support Facility (annotation 7, Figure 3).
2. SUPPORT Class YR.  
See annotation 4, Figure 4.
3. Possible "E" Class SSGN.  
Bow taper and "staybrite" belt are similar to the "E" Class. See annotation 5, Figure 4.
4. Possible "E" Class SSGN.  
Gently sloping stern and lack of a stern fin contribute to this tentative identification. See annotation 8, Figure 4.
5. Probable large floating crane.  
See annotation 9, Figure 4.
6. Probable UGRA Class AS.  
See annotation 12, Figure 4.
7. Probable "N" Class SSN.  
Identification is based on the very rounded bow and the configuration of the "staybrite" sonar belt.
8. Unidentified vessel.  
See annotation 14, Figure 4.

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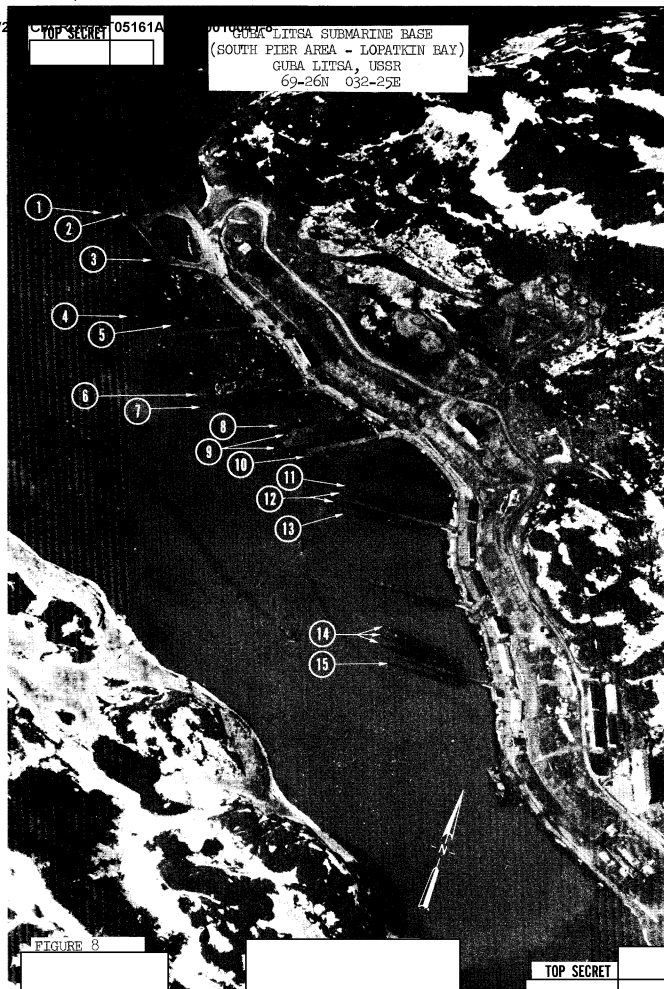
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9. Two BOLIVA Class APL.  
The height of the northern BOLIVA may be effectively masking the oblique view toward the position where a "K-I" Class OSS was berthed. See annotation 15, Figure 8.
10. Five small vessels.  
These vessels may be the same vessels visible at annotations 17, 18, and 19, on Figure 4.
11. Probable "N" Class SSN.  
Identification of this submarine is based on the very rounded bow and the configuration of the "staybrite" sonar belt. No submarines were present on this side of this finger pier 4 days earlier.
12. Two probable "E" Class SSGN.  
The submarines appear to have the same over-all configuration and to be of the same size (larger than the "N" Class above). Tapered bows and small possible sails are visible on each of these submarines. The more southerly submarine may be the same submarine at annotation number 20, Figure 4.
13. Probable "N" Class SSN.  
See annotation 21, Figure 4.
14. Three "E" Class SSGN.  
All 3 submarines appear to be identical. Identification is based on the presence of exhaust deflectors, location and size of sail, and "staybrite" sonar belt configuration. Only two "E-II" SSGN were present along the north side of this pier 4 days earlier. See annotations 22 and 23, Figure 4.
15. Probable "N" Class SSN.  
Very rounded bow, small sail, and probable stern fin are visible. See annotation 24, Figure 4.

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DDI IMAGERY ANALYSIS STAFF

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FACILITY : GUBA LITSA SUBMARINE BASE  
(NORTH PIER AREA - LITTLE IOPATKIN BAY)  
LOCATION : GUBA LITSA, USSR  
GEO COORDS: 69-27N 032-27E

KEY TO ANNOTATIONS ON FIGURE 9

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1. Unidentified vessel.
2. Unidentified merchant vessel.  
This ship was sighted [ ] at the next pier. See annotation 8, Figure 6.
3. Unidentified small barge.  
This barge was observed [ ] to be berthed along the southern side of the northernmost pier. See annotation 2, Figure 6.
4. Unidentified barge.  
See annotation 5, Figure 6.
5. BOLVA Class APL.  
See annotation 6, Figure 6.
6. UGRA Class AS.  
See annotation 9, Figure 6.
7. Two "E" Class SSGN.  
Identification is based on hull shape, location and configuration of "staybrite" belt, and 4 sets of exhaust deflectors. See annotations 10 and 11, Figure 6.
8. Two possible "J" Class SSG.  
Broad beams and an apparently "notched" appearance aft are visible on each submarine. See annotation 14 and the NOTE to Figure 6.
9. Unidentified AG.  
See annotation 15, Figure 6.
10. Two possible barges.  
See annotation 16, Figure 6.

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(NORTH PIER AREA - LITTLE LOPATKIN BAY)  
GUBA LITSA, USSR  
69-27N 032-27E

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FIGURE 9

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25X1 NOTE: Submarine movements at Guba Litsa summarized as follows:

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Area		
Andreeva Bay Support Facility	One "H-II" SSBN at pier. No SS offshore.	No SS at piers. One possible "E" SSGN offshore.
South Pier Area	One "E-II" SSGN at missile wharf. Four "E-II" SSGN, 3 "N" SSN, and 1 "K-I" OSS at piers.	One probable "H" SSBN and 1 possible "E" SSGN at missile wharf. One possible, 2 probable, and 3 "E" SSGN at piers. Four probable "N" SSN at piers.
North Pier Area	Three "E-II" SSGN and 1 "J" SSG at piers. One "J" SSG offshore.	Two "E" SSGN and 2 possible "J" SSG at piers. No SS offshore.
Totals (entire Guba Litsa Complex - each day)	1 "H-II" SSBN 8 "E-II" SSGN 3 "N" SSN 2 "J" SSG 1 "K-I" OSS	1 possible "H" SSBN 10 "E" SSGN (includes 3 possible and 2 probable) 4 probable "N" SSN 2 possible "J" SSG

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